



PATENT ABSTRACTS OF JAPAN

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H04N 5/66(21) Application number: 09301095
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(30) Priority: 01.04.1997 JP 09 83134(71) Applicant: SONY CORP
(72) Inventor: NUMAOKA CHISATO(54) APPARATUS AND METHOD FOR IMAGE
DISPLAY DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To improve operability and mobility of a portable device with a display device.

SOLUTION: A frame difference detector 4 extracts a change in an image produced between two frames by using contents of frame buffers 2, 3. A gravity center calculation detector 5 calculates a gravity center of the image change, based on the extracted image change, and a gravity center coordinate storage section 6 or the like stores the gravity center. A camera movement value calculation device 8 obtains a difference between the content of the gravity center coordinate storage section 6 and the content of a gravity center coordinate storage section 7, to calculate a pixel change number ΔPx in the horizontal direction of the camera and a pixel change number ΔPy in the vertical

direction of the camera. A horizontal direction rotary angle controller 9 and a vertical direction rotary angle controller 10 calculate a rotary angle θx of a virtual camera 11 in the horizontal direction and a rotary angle θy of the virtual camera 11 in the vertical direction, to control a visual point of the virtual camera 11.

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